

# इंटरनेट

# मानक

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IS 8175 (1994): Neurosurgical Instruments - Forceps, Artery, Straight and Curved on Flat, Hugh Cairn's Pattern - Shape and Dimensions [MHD 7: Neurosurgery Instruments Implants and Accessories]



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भारतीय मानक

तन्त्र शल्य क्रिया उपकरण — चिमटी, धमनी, सीधी, तथा  
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आकृति एवं आयाम

( पहला पुनरीक्षण )

*Indian Standard*

NEUROSURGICAL INSTRUMENTS — FORCEPS,  
ARTERY, STRAIGHT AND CURVED ON  
FLAT, HUGH CAIRN'S PATTERN —  
SHAPE AND DIMENSIONS

( *First Revision* )

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BUREAU OF INDIAN STANDARDS  
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NEW DELHI 110002

## FOREWORD

This Indian Standard ( First Revision ) was adopted by the Bureau of Indian Standards, after the draft finalized by the Neurosurgery Instruments Sectional Committee had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was first published in 1976. It has been revised to cover the requirements in respect of shape and dimensions only, as the specification part of these types of instruments is covered in IS 3642 ( Part 1 ) : 1990 'Surgical instruments — Specification : Part 1 Non-cutting, articulated instruments ( *second revision* )'. This standard is, therefore, intended to be used only in respect of shape and dimensions, which are referred to in 4.1 of IS 3642 ( Part 1 ) : 1990.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values ( *revised* )'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard*

# NEUROSURGICAL INSTRUMENTS — FORCEPS, ARTERY, STRAIGHT AND CURVED ON FLAT, HUGH CAIRN'S PATTERN — SHAPE AND DIMENSIONS

*( First Revision )***1 SCOPE**

**1.1** This standard prescribes shape and dimensions for straight and curved on flat, Hugh Cairn's pattern, artery forceps used in neurosurgery.

**2 REFERENCE**

**2.1** The Indian Standard IS 3642 ( Part 1 ) : 1990 'Surgical instruments — Specification : Part 1 Non-cutting, articulated instruments ( *second revision* )' is a necessary adjunct to this standard.

**3 SHAPE AND DIMENSIONS**

**3.1** The shape and dimensions for the straight and curved on flat forceps shall be as shown in Fig. 1 and 2, respectively.

**3.2 Tolerances**

Tolerances on dimensions shall be as specified in 4.2 of IS 3642 ( Part 1 ) : 1990.

**3.3 Mass**

The mass of the instrument shall be  $25 \pm 3$  g.

**3.4 Serrations**

The serrations shall be transverse and shall match crest to trough. They shall be clear, of uniform depth throughout, and true and square with the jaws of the instrument.

**3.5 Ratchet**

The ratchet teeth shall conform to the requirements given in Section 4 of IS 3642 ( Part 1 ) : 1990, combination of 1 in 2 for straight and 3 in 3 or 1 in 2 for curved on flat type forceps.

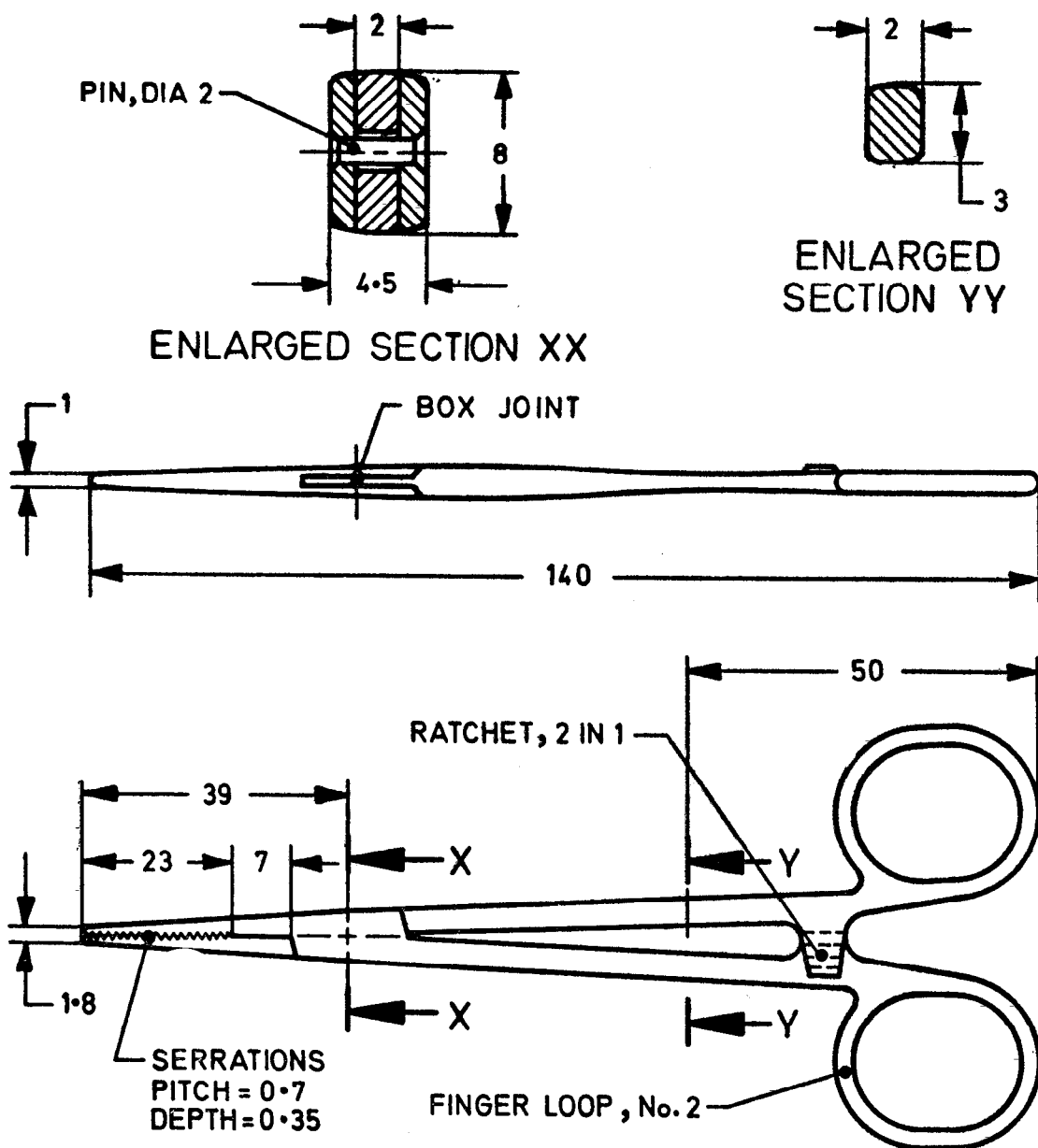
**3.5.1** The ratchet teeth shall be so designed that the load at which the first ratchet just engages shall be between 2.0 to 2.5 kgf.

**3.6 Joint**

The joint shall be box type in accordance with 13.2.2 of IS 3642 ( Part 1 ) : 1990.

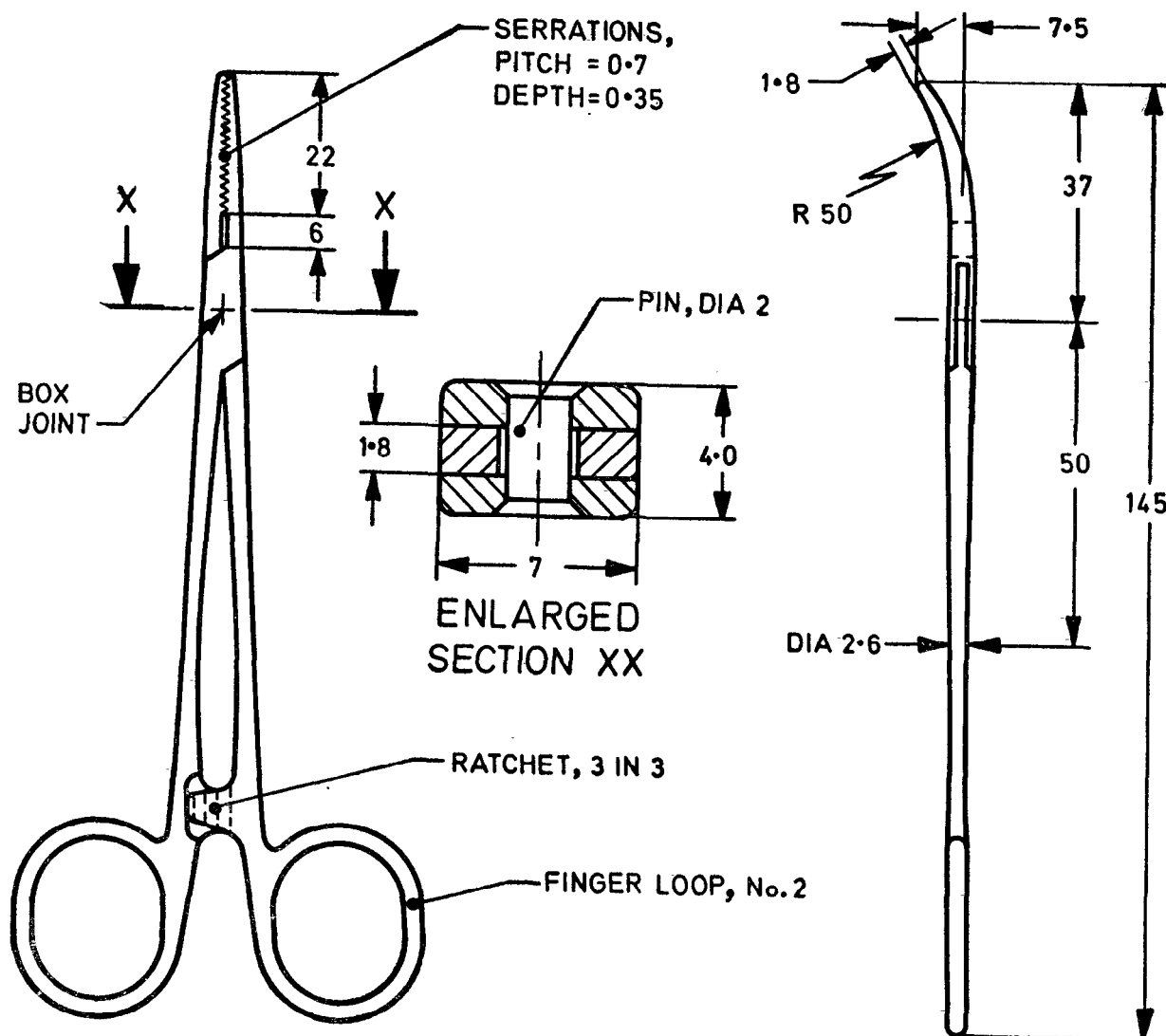
**3.7 Finger Loops**

The finger loop shall conform to Size No. 2 of Section 6 of IS 3642 ( Part 1 ) : 1990.



All dimensions in millimetres.

**FIG. 1** FORCEPS, ARTERY, STRAIGHT, HUGH CAIRN'S PATTERN



All dimensions in millimetres.

FIG. 2 FORCEPS, ARTERY, CURVED ON FLAT, HUGH CAIRN'S PATTERN



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